

## **IN THE CLAIMS**

Please amend the claims as follows:

- 1-2. (Cancelled)
3. (Previously Presented) A method for displaying gene expression data, comprising:
  - calculating a first ratio of gene expression levels of a Sample B and a Sample A for each of a plurality of genes in a first;
  - calculating a second ratio of gene expression levels of a Sample C and the Sample A for said each of a plurality of genes in a second;
  - obtaining a mediated dataset of gene expression levels for the Samples A, B, C expressed as  $(b/a, c/A, 1)$  for said each of a plurality of genes;
  - calculating a first magnitude  $r$  of said dataset expressed as  $r = \sqrt{(b/a)^2 + (c/A)^2 + 1}$ ; and
  - displaying marks of a first product of the first ratio and  $1/r$ , a second product of the second ratio and the  $1/r$ , and the  $1/r$  on coordinate positions with respect to x-, y- and z-axes on a surface of a sphere.
4. (Previously Presented) A method for displaying gene expression data according to claim 3, further comprising: calculating a second magnitude  $R$  of said dataset expressed as  $R = \sqrt{(b^2 + c^2 + (a + A)^2)}$  displaying marks of a third product of the first ratio and  $R/r$ , a fourth product of the second ratio and the  $R/r$ , and the  $R/r$  on coordinate positions with respect to x-, y- and z-axes.
5. (Previously Presented) A method for displaying gene expression data according to claim 3, further comprising: performing a clustering analysis on the displayed marks on the sphere; and marking at least one gene group obtained by the clustering analysis as a region on the sphere.
6. (Previously Presented) A method for displaying gene expression data according to claim 4, further comprising: performing a clustering analysis on the displayed magnitude coordinate positions inside the sphere; and marking at least one gene group obtained by the clustering analysis as a region inside the sphere.

7. (Currently Amended) A method for displaying gene expression data according to claim 3 ~~either one of claims 3, 4 and 11~~, wherein the expression level data is data in a time series, which is displayed based on respective time points for each gene in conjunction with a direction of changes of the coordinate positions with time in the displaying step.
8. (Currently Amended) A method for displaying gene expression data according to claim 5 ~~either one of claims 5, 6, and 13~~, wherein the expression level data is data in a time series, and said region is displayed based on respective time points in conjunction with a direction of changes of said region with time in the displaying step.
- 9-13. (Cancelled)
14. (New) A method for displaying gene expression data according claim 4, wherein the expression level data is data in a time series, which is displayed based on respective time points for each gene in conjunction with a direction of changes of the coordinate positions with time in the displaying step.
15. (New) A method for displaying gene expression data according claim 11, wherein the expression level data is data in a time series, which is displayed based on respective time points for each gene in conjunction with a direction of changes of the coordinate positions with time in the displaying step.
16. (New) A method for displaying gene expression data according to claim 6, wherein the expression level data is data in a time series, and said region is displayed based on respective time points in conjunction with a direction of changes of said region with time in the displaying step.
17. (New) A method for displaying gene expression data according to claim 13, wherein the expression level data is data in a time series, and said region is displayed based on respective time points in conjunction with a direction of changes of said region with time in the displaying step.